

ROTARY ELECTRIC MOTOR HAVING SEPARATE CONTROL
MODULES FOR RESPECTIVE STATOR ELECTROMAGNETS

Abstract of the Disclosure

5 A rotary brushless electric motor is formed within a cylindrical rotor housing structure that surrounds an annular stator ring. The stator is formed of a plurality of individual power modules and corresponding core segments, each module comprising electrical control and drive elements supplied by a power source incorporated within the stator. Such parallel architecture provides relatively independently controlled functionality for each module. Each module and stator core segment can be individually installed and removed without disturbing the other units. Should a particular module or stator core segment fail, it can be easily removed for repair or replacement and reinstallation.